

# Oracle Identity Governance Bundle Patch Readme

This document is intended for users of OIM BUNDLE PATCH 12.2.1.4.210428. It contains the following sections:

 **Note:**

For issues documented after the release of OIM BUNDLE PATCH 12.2.1.4.210428, see My Oracle Support Document 2602696.1 at <https://support.oracle.com/>.

- [Understanding Bundle Patches](#)
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## Understanding Bundle Patches

This section describes bundle patches and explains differences between bundle patches, patch set exceptions (also known as one-offs), and patch sets.

- [Stack Patch Bundle](#)
- [Bundle Patch](#)
- [Patch Set Exception](#)
- [Patch Set](#)

### Stack Patch Bundle

Stack Patch Bundle deploys the IDM product and dependent FMW patches using a tool. For more information about these patches, see *Quarterly Stack Patch Bundles (Doc ID 2657920.1)* at <https://support.oracle.com>.

### Bundle Patch

A bundle patch is an official Oracle patch for an Oracle product. In a bundle patch release string, the fifth digit indicated the bundle patch number. Effective November 2015, the version numbering format has changed. The new format replaces the numeric fifth digit of the bundle version with a release date in the form "YYMMDD" where:

- YY is the last 2 digits of the year
- MM is the numeric month (2 digits)
- DD is the numeric day of the month (2 digits)

Each bundle patch includes the libraries and files that have been rebuilt to implement one or more fixes. All of the fixes in the bundle patch have been tested and are certified to work with one another. Regression testing has also been performed to ensure backward compatibility with all Oracle Mobile Security Suite components in the bundle patch.

### Patch Set Exception

In contrast to a bundle patch, a patch set exception addressed only one issue for a single component. Although each patch set exception was an official Oracle patch, it was not a complete product distribution and did not include packages for every component. A patch set exception included only the libraries and files that had been rebuilt to implement a specific fix for a specific component.

## Patch Set

A patch set is a mechanism for delivering fully tested and integrated product fixes. A patch set can include new functionality. Each patch set includes the libraries and files that have been rebuilt to implement bug fixes (and new functions, if any). However, a patch set might not be a complete software distribution and might not include packages for every component on every platform. All of the fixes in a patch set are tested and certified to work with one another on the specified platforms.

## Recommendations

Oracle has certified the dependent Middleware component patches for Identity Management products and recommends that you apply these certified patches. For more information about these patches, see *Certification of Underlying or Shared Component Patches for Identity Management Products (Doc ID 2627261.1)* at <https://support.oracle.com>.

## Bundle Patch Requirements

You must satisfy the following requirements before applying this bundle patch:

- Verify that you are applying this bundle patch to an Oracle Identity Governance 12.2.1.4.0 installation.

### Note:

When installing OPatch, you might find that interim or one off patches have already been installed.

- Download the latest version of OPatch. The OPatch version for this bundle patch is 13.9.4.2.5. However, Oracle recommends using the latest version of OPatch to all customers. To learn more about OPatch and how to download the latest version, refer to the following:

You can access My Oracle Support at <https://support.oracle.com>.

- Verify the OUI Inventory. To apply patches, OPatch requires access to a valid OUI Inventory. To verify the OUI Inventory, ensure that ORACLE\_HOME/OPatch appears in your PATH for example:

```
export PATH=ORACLE_HOME/OPatch:$PATH
```

Then run the following command in OPatch inventory

```
opatch lsinventory
```

If the command returns an error or you cannot verify the OUI Inventory, contact Oracle Support. You must confirm the OUI Inventory is valid before applying this bundle patch.

- Confirm the `opatch` and `unzip` executables exist and appear in your system PATH, as both are needed to apply this bundle patch. Execute the following commands:

```
which opatch
which unzip
```

Both executables must appear in the PATH before applying this bundle patch.

- Ensure that there are no pending JMS messages in Oracle Identity Governance server. You can monitor JMS messages with WebLogic console.

## Applying the Bundle Patch to an Existing Instance

Applying OIM BUNDLE PATCH 12.2.1.4.210428 is done in the following stages:

### Note:

Before performing the steps to apply the bundle patch, create a backup of the database, as stated in [Prerequisites of Applying the Bundle Patch](#) which will help you roll back to the previous release.

- [Understanding the Process Sequence With an Example](#)
- [Patching the Oracle Binaries \(OPatch Stage\)](#)
- [Stage 2: Filling in the patch\\_oim\\_wls.profile File](#)
- [Stage 3: Patching the Oracle Identity Governance Managed Servers \(patch\\_oim\\_wls Stage\)](#)

## Understanding the Process Sequence With an Example

If you have ORACLE\_HOME\_A and ORACLE\_HOME\_B, and ORACLE\_HOME\_A is running WebLogic Admin Server, oim\_server1, and soa\_server1, and ORACLE\_HOME\_B is running oim\_server2 and soa\_server2, then the following is the process sequence to apply the bundle patch to the Oracle Identity Governance instance:

1. Shutdown the Oracle Identity Governance server, WebLogic Admin Server, and SOA Managed Server.
2. Run 'Opatch apply' on ORACLE\_HOME\_A. See [Patching the Oracle Binaries \(OPatch Stage\)](#) for more information.
3. Run 'Opatch apply' on ORACLE\_HOME\_B. See [Patching the Oracle Binaries \(OPatch Stage\)](#) for more information.

4. Fill-in the `patch_oim_wls.profile` file and run `patch_oim_wls` on `ORACLE_HOME_A` with WebLogic Admin Server, `oim_server1`, and `soa_server1` running. The rest of the servers on other nodes can be down.

See [Stage 2: Filling in the patch\\_oim\\_wls.profile File](#) for information on filling in the `patch_oim_wls.profile`.

See [Stage 3: Patching the Oracle Identity Governance Managed Servers \(patch\\_oim\\_wls Stage\)](#) for information about running `patch_oim_wls`.

5. Restart the managed servers on all the nodes.

## Patching the Oracle Binaries (OPatch Stage)

This section describes the process of applying the binary changes by copying files to the `ORACLE_HOME` directory, on which Oracle Identity Governance is installed. This step must be executed for each `ORACLE_HOME` in the installation topology nodes irrespective of whether Oracle Identity Governance server is being run in the node or not.

Perform the following steps to apply the bundle patch to an existing Oracle Identity Governance instance:

1. Stop the Admin Server, all Oracle Identity Governance managed servers, and all SOA managed servers.
2. Create a directory for storing the unzipped bundle patch. This document refers to this directory as `PATCH_TOP`.
3. Unzip the patch zip file in to the `PATCH_TOP` directory you created in step 2 by using the following command:

```
unzip -d PATCH_TOP p32829648_122140_Generic.zip
```

### Note:

On Windows, the `unzip` command has a limitation of 256 characters in the path name. If you encounter this issue, use an alternate ZIP utility, for example 7-Zip to unzip the zip file.

Run the below command to unzip the file:

```
"c:\Program Files\7-Zip\7z.exe" x p32829648_122140_Generic.zip
```

4. Move to the directory where the patch is located. For example:

```
cd PATCH_TOP/32829648
```

5. Set the `ORACLE_HOME` directory in your system. For example:

```
setenv ORACLE_HOME /u01/Oracle/Middleware
```

6. Ensure that the OPatch executables are present in your system PATH. To update the PATH environment variable to include the path of Opatch directory, run the following command:

```
export PATH=$ORACLE_HOME/Opatch:$PATH
```

7. Apply the bundle patch to the ORACLE\_HOME using the following command for Oracle Identity Governance:

```
opatch apply
```

 **Note:**

If OPatch fails with error code 104, cannot find a valid oraInst.loc file to locate Central Inventory, include the -invPtrLoc argument, as follows:

```
opatch apply -invPtrLoc ORACLE_HOME/oraInst.loc
```

When OPatch starts, it will validate the patch and ensure there are no conflicts with the software already installed in the ORACLE\_HOME. OPatch categorizes two types of conflicts:

- Conflicts with a patch already applied to the ORACLE\_HOME. In this case, stop the patch installation and contact Oracle Support.
- Conflicts with subset patch already applied to the ORACLE\_HOME. In this case, continue the install, as the new patch contains all the fixes from the existing patch in the ORACLE\_HOME. The subset patch will automatically be rolled back prior to the installation of the new patch.

 **Note:**

For clustered and multi-node installation of Oracle Identity Governance, this step must be run on all the ORACLE\_HOME directories on which Oracle Identity Governance is installed.

8. Start all the servers in the OIG domain, which are the Admin Server, SOA Server, and Oracle Identity Governance Server.

## Stage 2: Filling in the patch\_oim\_wls.profile File

Using a text editor, edit the file `patch_oim_wls.profile` located in the directory `ORACLE_HOME/idm/server/bin/` directory and change the values in the file to match your environment. The `patch_oim_wls.profile` file contains sample values.

 **Note:**

For clustered and multinode installation of Oracle Identity Governance, perform the step described in this topic on the ORACLE\_HOME\_A directory on which Oracle Identity Governance is installed. This is because you need to run the `patch_oim_wls` script from the node with WebLogic Admin Server, `oim_server1`, and `soa_server1` installed. In the `patch_wls_oim.profile` file, mention the host and port of the Oracle Identity Governance server and SOA server running on the first node. When you run the script, only WebLogic Admin Server, `oim_server1`, and `soa_server1` should be running, and the rest of the servers can be down.

Table 1-1 lists the information to be entered for the `patch_oim_wls.profile` file. This file is used in next stage of the bundle patch process.

**Table 1-1 Parameters of the `patch_oim_wls.profile` File**

Parameter	Description	Sample Value
<code>ant_home</code>	Location of the ANT installation. It is usually under <code>MW_HOME</code> .	For Linux: <code>\$MW_HOME/oracle_common/modules/thirdparty/org.apache.ant/1.10.5.0.0/apache-ant-1.10.5/</code> For Windows: <code>%MW_HOME%/oracle_common/modules/thirdparty/org.apache.ant/1.10.5.0.0/apache-ant-1.10.5/</code>
<code>java_home</code>	Location of the JDK/JRE installation that is being used to run the Oracle Identity Governance domain.	For Linux: <code>&lt;JAVA_HOME_PATH&gt;</code> consumed by <code>\$MW_HOME</code> For Windows: <code>&lt;JAVA_HOME_PATH&gt;</code> consumed by <code>%MW_HOME%</code>
<code>mw_home</code>	Location of the middleware home location on which Oracle Identity Governance is installed.	For Linux: <code>/u01/Oracle/Middleware</code> For Windows: <code>C:\Oracle\MW_HOME\</code>
<code>oim_oracle_home</code>	Location of the Oracle Identity Governance installation.	For Linux: <code>\$MW_HOME/idm</code> For Windows: <code>%MW_HOME%\idm</code>
<code>soa_home</code>	Location of the SOA installation.	For Linux: <code>\$MW_HOME/soa</code> For Windows: <code>%MW_HOME%\soa</code>
<code>weblogic.server.dir</code>	Directory on which WebLogic server is installed.	For Linux: <code>\$MW_HOME/wlserver</code> For Windows: <code>%MW_HOME%\wlserver</code>

**Table 1-1 (Cont.) Parameters of the patch\_oim\_wls.profile File**

Parameter	Description	Sample Value
domain_home	Location of the domain home on which Oracle Identity Governance is installed.	\$MW_HOME/user_projects/domains/base_domain
weblogic_user	Domain administrator user name. Normally it is weblogic, but could be different as well.	weblogic
weblogic_password	Domain admin user's password. If this line is commented out, then password will be prompted.	NA
soa_host	Listen address of the SOA Managed Server, or the hostname on which the SOA Managed Server is listening. <b>Note:</b> If the SOA Managed Server is configured to use a virtual IP address, then the virtual host name must be supplied.	oimhost.example.com
soa_port	Listen port of the SOA Managed Server, or SOA Managed Server port number.	8001 Only Non-SSL Listen port must be provided.
operationsDB.user	Oracle Identity Governance database schema user.	DEV_OIM
OIM.DBPassword	Oracle Identity Governance database schema password. If this line is commented out, then the password will be prompted when the script is executed.	NA
operationsDB.host	Host name of the Oracle Identity Governance database.	oimdbhost.example.com
operationsDB.serviceName	Database service name of the Oracle Identity Governance schema/database. This is not the hostname and it can be a different value as well.	oimdb.example.com
operationsDB.port	Database listener port number for the Oracle Identity Governance database.	1521
mdsDB.user	MDS schema user	DEV_MDS
mdsDB.password	MDS schema password. If this line is commented out, then password will be prompted.	NA
mdsDB.host	MDS database host name	oimdbhost.example.com



**Table 1-1 (Cont.) Parameters of the patch\_oim\_wls.profile File**

Parameter	Description	Sample Value
mdsDB.port	MDS database/Listen port	1521
mdsDB.serviceName	MDS database service name	oimdb.example.com
oim_username	Oracle Identity Governance username.	System administrator username
oim_password	Oracle Identity Governance password. This is optional. If this is commented out, then you will be prompted for the password when the script is executed.	NA
oim_serverurl	URL to navigate to Oracle Identity Governance.	t3:// oimhost.example.com:14000
wls_serverurl	URL to navigate to WLS Console	t3:// wlshost.example.com:7001
opss_customizations_present =false	Enables customizations related to authorization or custom task flow. Set this value to true to enable customization.	true
ATP-D	Set the value to false if DB type is not ATP-D. Set this to true if underlying DB type is ATP-D.	true
TNS_ADMIN	Set this value only if the value of ATP-D is true. Set this value to the TNS String as provided by DB Admin, for example, fmwatpdedic2_tp? TNS_ADMIN=/home/opc. Here, /home/opc is the path of the wallet zip that is downloaded. If you are using some other predefined service, then provide the path to that service.	fmwatpdedic2_tp? TNS_ADMIN=/home/opc

**Note:**

Update the parameter value as per the setup used and then execute the patch\_oim\_wls.sh file.

### Stage 3: Patching the Oracle Identity Governance Managed Servers (patch\_oim\_wls Stage)

Patching the Oracle Identity Governance managed servers is the process of copying the staged files in the previous steps (stage 1) to the correct locations, and running SQL scripts and importing event handlers and deploying SOA composite. For making MBean calls, the script automatically starts the Oracle Identity Governance Managed Server and SOA Managed Server specified in the `patch_oim_wls.profile` file.

This step is performed by running `patch_oim_wls.sh` (on UNIX) and `patch_oim_wls.bat` (on Microsoft Windows) script by using the inputs provided in the `patch_oim_wls.profile` file. As prerequisites, the WebLogic Admin Server, SOA Managed Servers, and Oracle Identity Governance Managed Server must be running.

 **Note:**

For clustered and multinode installation of Oracle Identity Governance, perform the steps described in this topic on the `ORACLE_HOME_A` directory on which Oracle Identity Governance is installed. In other words, run the `patch_oim_wls` script from the node with WebLogic Admin Server, `oim_server1`, and `soa_server1` installed. When you run the script, only WebLogic Admin Server, `oim_server1`, and `soa_server1` should be running, and the rest of the servers can be down.

To patch Oracle Identity Governance Managed Servers on WebLogic:

1. Make sure that the WebLogic Admin Server, SOA Managed Servers, and Oracle Identity Governance Managed Server are running.
2. Set the following environment variables:

For LINUX or Solaris, set the `JAVA_HOME` environment variable:

```
export JAVA_HOME=<JAVA_HOME_PATH>
export PATH=$JAVA_HOME/bin:$PATH
```

For Microsoft Windows:

```
set JAVA_HOME=<JAVA_HOME_PATH>
set ANT_HOME=\PATH_TO_ANT_DIRECTORY\ant
set ORACLE_HOME=%MW_HOME%\idm
```

 **Note:**

Make sure to set the reference to JDK binaries in your PATH before running the `patch_oim_wls.sh` (on UNIX) or `patch_oim_wls.bat` (on Microsoft Windows) script. This `JAVA_HOME` must be of the same version that is being used to run the WebLogic servers. The `JAVA_HOME` version from `/usr/bin/` or the default is usually old and must be avoided. You can verify the version by running the following command:

```
java -version
```

3. Execute `patch_oim_wls.sh` (on UNIX) or `patch_oim_wls.bat` (on Microsoft Windows) to apply the configuration changes to the Oracle Identity Governance server. On Linux systems, you must run the script in a shell environment using the following command:

```
sh patch_oim_wls.sh
```

 **Note:**

For EDG implementations, this script must be run against the `mserver` domain directory rather than the `server` domain directory.

4. Delete the following directory from OIG domain home:  
`$DOMAIN_HOME/servers/oim_server1/tmp/_WL_user/oracle.iam.console.identity.self-service.ear_V2.0`  
Here, `oim_server1` is the weblogic managed server used for OIG.
5. To verify that the `patch_oim_wls` script has completed successfully, check the `ORACLE_HOME/idm/server/bin/patch_oim_wls.log` log file.

 **Note:**

On running the `patch_oim_wls` script, the `$DOMAIN_HOME/servers/MANAGED_SERVER/security/boot.properties` file might be deleted. If you use a script to start the Managed Server and use the `boot.properties` file to eliminate the need of entering the password in the script, then create a new `boot.properties` file.

In an EDG environment, the `boot.properties` file is in `MSERVER_HOME/servers/MANAGED_SERVER/security`.

6. Stop and start WebLogic Admin Server, SOA Server, and Oracle Identity Governance Server.

- Shutting down Oracle Identity Governance server might take a long time if it is done with force=false option. It is recommended that you force shutdown Oracle Identity Governance server.
- The patch\_oim\_wls script is re-entrant and can be run again if a failure occurs.

## Removing the Bundle Patch

If you must remove the bundle patch after it is applied, then perform the following steps:

### Note:

For clustered installations, perform steps 1 through 3 on all nodes in the cluster.

1. Perform the same verification steps and requirement checks that you made before applying the bundle patch. For example, backup the XML files and import them to a different location, verify the OUI Inventory and stop all services running from the ORACLE\_HOME.

2. Move to the directory where the bundle patch was unzipped. For example:

```
cd PATCH_TOP/32829648
```

3. Run OPatch as follows to remove the bundle patch:

```
opatch rollback -id 32829648
```

4. Restore ORACLE\_HOME, the WebLogic domain home from the backup created before applying the patch.
5. Restore the Oracle Identity Governance database using the backup you created in Step 1 of [Applying the Bundle Patch to an Existing Instance](#).
6. Start all servers in OIG domain, which are WebLogic Admin Server, SOA Server, and Oracle Identity Governance Server.

## Applying the Bundle Patch to a New Instance

Perform the following steps to apply the bundle patch to a new instance:

- [Installing a New Oracle Identity Governance Instance with OIM BUNDLE PATCH 12.2.1.4.210428](#)
- [Updating Oracle Identity Governance Web Applications](#)
- [Prerequisites of Applying the Bundle Patch](#)

# Installing a New Oracle Identity Governance Instance with OIM BUNDLE PATCH 12.2.1.4.210428

You can install a new Oracle Identity Governance instance with the bundle patch in any one of the following ways:

- [Using the Quickstart Installer](#)
- [Using the Generic Installer](#)

## Using the Quickstart Installer

To install a new instance of Oracle Identity Governance with the bundle patch by using the Quickstart installer:

 **Note:**

For clustered deployments, perform the steps provided in this section on each node in the cluster.

1. Start the installation by referring to [Installing Oracle Identity Governance Using Quickstart Installer](#) of *Installing and Configuring Oracle Identity and Access Management*. Before creating the database schema, apply the patch by using Opatch, as described in [Patching the Oracle Binaries \(OPatch Stage\)](#). Then, continue with schema creation.

 **Note:**

It is recommended that this step is performed before creating or extending the domain with Oracle Identity Governance.

2. Create the domain by launching the configuration wizard, as specified in [Configuring and Updating the Oracle Identity Governance Domain](#) of *Installing and Configuring Oracle Identity and Access Management*.
3. Run the `offlineConfigManager` command to perform post configuration tasks. See [Running the Offline Configuration Command](#) in *Installing and Configuring Oracle Identity and Access Management*.
4. Start the WebLogic Admin Server, SOA Server, and OIG server.
5. Verify that you are able to log in to Oracle Identity Self Service or Oracle Identity System Administration.
6. Login to Oracle Enterprise Manager Fusion Middleware Control, and invoke the `OIMSOAIntegrationMBean` to integrate OIG with SOA. See [Integrating Oracle Identity Governance with Oracle SOA Suite](#) in *Installing and Configuring Oracle Identity and Access Management*.

## Using the Generic Installer

To install a new instance of Oracle Identity Governance with the bundle patch by using the generic installer:

 **Note:**

For clustered deployments, perform the steps provided in this section on each node in the cluster.

1. Start the installation by referring to [Configuring the Oracle Identity Governance Domain](#) of *Installing and Configuring Oracle Identity and Access Management*. Before creating the database schema, apply the patch by using Opatch, as described in [Patching the Oracle Binaries \(OPatch Stage\)](#). Then, continue with schema creation.

 **Note:**

It is recommended that this step is performed before creating or extending the domain with Oracle Identity Governance.

2. Create the domain by launching the configuration wizard, as specified in [Configuring the Domain](#) of *Installing and Configuring Oracle Identity and Access Management*.
3. Run the `offlineConfigManager` command to perform post configuration tasks. See [Running the Offline Configuration Command](#) in *Installing and Configuring Oracle Identity and Access Management*.
4. Start the WebLogic Admin Server, SOA Server, and OIG server.
5. Verify that you are able to log in to Oracle Identity Self Service or Oracle Identity System Administration.
6. Login to Oracle Enterprise Manager Fusion Middleware Control, and invoke the `OIMSOAIntegrationMBean` to integrate OIG with SOA. See [Integrating Oracle Identity Governance with Oracle SOA Suite](#) in *Installing and Configuring Oracle Identity and Access Management*.

## Updating Oracle Identity Governance Web Applications

The procedure described in this section is applicable only when installing bundle patches for Oracle Identity Governance and not for installing patch set updates.

For updating your web applications on Oracle WebLogic Server:

1. Stop Oracle Identity Governance Managed Server.
2. Login to WebLogic Administrative Console.

3. Click **Lock & Edit**.
4. Go to **Deployments**.
5. Select the **oracle.iam.ui.view** and **oracle.iam.ui.model** app, and click **Update**. Complete the steps of the wizard by clicking **Next**. Do not change anything.
6. Click **Apply Changes**.
7. Start Oracle Identity Governance Managed Server.

## Prerequisites of Applying the Bundle Patch

Before applying the bundle patch, perform the following prerequisites:

- This patch process makes changes to Oracle Identity Governance database schema (such as adding/modifying data), Oracle Identity Governance Meta Data Store (MDS) database schema (such as adding/modifying data), domain configuration changes, and other binary changes in the file system under ORACLE\_HOME on which Oracle Identity Governance is installed. It is mandatory to create a backup of the following:
  - Oracle Identity Governance, MDS, and Service-Oriented Architecture (SOA) database schemas. For example, the database schema can be DEV\_OIM, DEV\_MDS schemas used by Oracle Identity Governance. Simple export of the schemas is sufficient.
  - The ORACLE\_HOME directory on which Oracle Identity Governance is installed, for example, /u01/Oracle/Middleware.
  - Oracle Identity Governance WebLogic Domain location, for example, /u01/Oracle/Middleware/user\_projects/domains/IAMGovernanceDomain/.
  - The UNIX user applying opatch must have read, write, and execute permissions on both ORACLE\_HOME as well as WEBLOGIC\_DOMAIN\_HOME. You can verify this manually in the file system for DOMAIN\_HOME and ORACLE\_HOME.
- If you have customized the event handler file metadata/iam-features-configservice/event-definition/EventHandlers.xml in your setup, then perform the following steps to ensure that the upgrade does not override any customization done to this file:
  1. Export the metadata/iam-features-configservice/event-definition/EventHandlers.xml file from MDS, and create a backup of this file.
  2. After upgrading and running all the post install steps, export the new metadata/iam-features-configservice/event-definition/EventHandlers.xml file, merge your customization to this new file, and import it back to MDS.

### **Note:**

For more information on MDS Utilities, see [MDS Utilities and User Modifiable Metadata Files](#).

## Changes in Track Request Functionality

Track Request functionality will change after this Bundle Patch is applied.

When a user performs a search in Self Service tab, Track Requests page, and in the search result table, applies Show list option as **For Reportees**, all the requests raised by or for the logged in user and user's direct and indirect reportee are displayed.

### Note:

- The Organization Name field works only with the For Reportees feature.
- While using the Organization Name search criteria, at least one direct reportee should be associated with the organization. See [Errors Related to the For Reportees Feature](#) for the error message that is displayed when an organization name outside the reportee's organization is entered.
- Only two levels of reportees are considered, direct reportees and their immediate reportees
- The total number of direct reportees and indirect reportees must not exceed 1000. See [Errors Related to the For Reportees Feature](#) for the error message that is displayed if the number of direct reportees and indirect reportees are more than 1000.

## Access Policy Harvesting to Enable Account Data Update

As a fix for bug# 30978612 in the bundle patch, the new `XL.APHarvesting.AllowAccountDataUpdate` system property is available to update the account data with the policy defaults for the accounts linked to the access policies. This system property has the following details:

Name: `XL.APHarvesting.AllowAccountDataUpdate`

Keyword: `XL.APHarvesting.AllowAccountDataUpdate`

Default value: `FALSE`

When this system property is set to `TRUE`, the account data is updated with the policy defaults for the accounts linked to access policy. If set to `FALSE` or if the system property does not exist, the account data is not updated.

To enable updating the account data with the policy defaults for the accounts linked to the access policies, set the values of the `XL.APHarvesting.AllowAccountDataUpdate`, `XL.AllowAPHarvesting`, `XL.APHarvestRequestAccount`, `XL.APHarvestDirectProvisionAccount`, and `XL.AllowAPBasedMultipleAccountProvisioning` system properties to `TRUE`.



## Bulk Load Utility for Loading Accounts

With the fix for bug# 30145982 in the bundle patch, the Bulk Load Utility for loading account data asks for the following input:

### Note:

Running the Bulk Load Utility for account data has the following requirements:

- Oracle Identity Governance server is running.
- The `MW_HOME` and `OIM_ORACLE_HOME` paths must be accessible although they are running on different hosts.

1. Before running the utility, perform the following steps:
  - a. Edit the `oim_blkld_accounts.sh` script, and add the following lines, and save the script.

```
$MW_HOME/wlserver/server/lib/wlfullclient.jar
$MW_HOME/oracle_common/modules/javax.management.j2ee.jar
```
  - b. Generate `wlfullclient.jar` if it is not available in the `MW_HOME/server/lib/` directory, and grant execute (755) permissions to the file.
2. Enter the `MW_HOME` directory or Press [Enter] to accept the default.
3. Enter the `OIM_ORACLE_HOME` directory or Press [Enter] to accept the default.
4. Enter the hostname on which OIG is running :  
It is mandatory that OIG is running on the same host.
5. Enter the port where OIG server is running :  
The default port is 14000.
6. Enter the path of `OIM_HOME`.
7. Enter the OIG system administrator user name.
8. Enter the OIG system administrator password.

## Steps to Map the Role and employeeType Attributes

If the bundle patch is applied after the OAM-OIG integration, then for the bug fix 31162758 to work, perform the following steps to map the `Role` attribute to the `employeeType` attribute:

1. Login to Oracle Identity Self Service.
2. Click the **Manage** tab, and then click the **Applications** box to open the Applications page.

3. Search for **SSOTrusted-for-SSOTargetApp** and open it.
4. Click the **Schema** tab.
5. Map `Role` to `employeeType`.
6. Save the changes.

If the bundle patch is applied to OIG before the integration with OAM, then the manual mapping of the attributes are not required.

## SSO Full User Reconciliation

For the bug fix 31605187 to work:

- If the bundle patch is applied after SSO integration, then the job parameter Incremental Recon Attribute value must be provided manually for the latest token value to get updated.
- If the bundle patch is applied before SSO integration, then manual steps are not required.

## Major Enhancements in Bundle Patch 12.2.1.4.210428

The following are the major enhancements in Oracle Identity Governance 12.2.1.4.210428:

- A new Access Policy REST API is available for performing CRUD operations on access policies in Oracle Identity Governance. See [REST API for Access Policy Management](#).
- Identity audit policy validation takes place for in-flight requests. See [Predictive Policy Analysis for In-Flight Requests](#) in *Performing Self Service Tasks with Oracle Identity Governance*.
- A new Revoke Access option is available for completing user certifications to revoke the roles and entitlements of the active user. See [Making Certification Decisions on the Users](#) in *Performing Self Service Tasks with Oracle Identity Governance*.
- The Content Selection page for creating user certification definition provides the Roles Outside Rules and High Risk Outside Rules options. See [Creating a User Certification Definition](#) in *Performing Self Service Tasks with Oracle Identity Governance*.
- When users are disabled, Oracle Identity Governance handles tasks without losing the assignments although the target assignee of the task being initiated is already disabled, or the current assignee of the pending tasks is being disabled. The type of tasks can be one of request/approval task, identity audit (IDA) scan violation, or certification. See [Use Cases for Disabled or Deleted Proxy Users](#) in *Administering Oracle Identity Governance*.

## Resolved Issues

The following section lists the issues resolved in Release 12.2.1.4.210428:

- [Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210428](#)
- [Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210112](#)
- [Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.201011](#)
- [Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.200624](#)
- [Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.200505](#)
- [Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.200206](#)

## Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210428

Applying this bundle patch resolves the issues described in [Table 1-2](#).

**Table 1-2 Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210428**

Bug Number	Description
16755363	IDMUPG:PS5-PS6:OIM UPGRADE SCRIPT THROWS NPE AFTER APPLYING PATCH 16609934
25386874	ER: NEED CONSISTENCY IN INTEGRATED OIM AND OAM FOR LANGUAGE PREFERENCE
28819255	CREATION OF THOUSANDS OF UNEXPLAINED UPDATE TASKS
29973037	OIM 11.1.2.3.X AUDIT - UPA TABLE IS NOT RECORDING DELTA INFORMATION PROPERLY
30013863	CAN'T CHANGE/UPDATE ATTRIBUTES ON AOB SCHEMA
30054791	ADMIN ROLE ACCESS POLICY VIEWER ALLOWS USER TO START CHANGING
30107277	CONNECTOR UNINSTALLATION FROM AOB DELETES ADAPTERS AS WELL.
30110645	AOB: REMOVAL OF A CHILD FORM REMOVES TASKS FROM OTHER APPLICATIONS
30141533	CREATE ADMIN ROLE ERROR
30155470	OIG 12.2.1.3.190624 REST API REQUESTS RETURNING ERROR WITH CUSTOM COMPOSITE
30201821	[ROLECERT]: PROXY USER SHOULD BE CERTIFIED BY THE CERTIFIER'S MANAGER
30265046	OIG SUBMIT BUTTON OF IDENTITY FIRST LOGIN PAGE SHOULD BE THE LAST READING ORDER

**Table 1-2 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210428**

<b>Bug Number</b>	<b>Description</b>
30272992	FEW REQUESTS MOVED TO FAILED STATUS WITH AUTO APPROVAL WORKFLOW
30465556	CERTIFICATION FAILS IF CATEGORY_COUNT_OPTION IS TO 1 OR 0
30581388	ADVANCED SEARCH WITH CHECKBOXES LEADS TO ERROR: JAVA.LANG.BOOLEAN CANNOT BE CAST
30586440	NPE ERRORS WHILE CREATE ADMIN ROLE ERROR
30628628	PROCESS PENDING ROLE GRANTS WHEN ROLE IS DELETED
30674852	ROLE CERTIFICATION FAILS USING ACCESS POLICY WITH MULTIPLE APPLICATION INSTANCES WITH THE SAME ENDPOINT
30719311	PASSWORD POLICY RULE "MINIMUM PASSWORD AGE (DAYS)" IS NOT HIGHLIGHTED
30773475	OIM ORGANIZATION GETTING DISABLED INTERMITTENTLY IN PRODUCTION .
30844901	PRE-POPULATING ATTRIBUTES NOT WORKING FOR USERS IMPORTED VIA BULK LOAD UTILITY
30901352	SCIM DOES NOT RETURN CORRECT USERS WHEN USING ENDPOINT /IAM/ GOVERNANCE/SCIM/V1/U
30908422	ROLE CATEGORY CONSIDERED DUPLICATE IN UI
31060268	OIG12C: ALLOWS YOU TO UPDATE AN EXISTING AP AND ADD 2ND APP FOR SAME RO
31342188	USER IS NOT CREATING IN LDAP POST SOA APPROVAL
31353225	FILTER IN SSO FULL AND INCREMENTAL RECON JOB DOES NOT WORK.
31397729	DIAG:QUARTZTRIGGERLISTENER.TRIGGERMISFIRED DOES NOT DISPLAY TRIGGER NAME
31467891	ACCESS POLICY EVALUATION INITIATES PROCESS TASKS FOR NULL CHECKBOX VALUES
31525878	OIM 12C SSO USER TARGET RECON OVERWRITING "ORGANIZATION NAME" VALUE WITH "XELLERATE USERS" DEFAULT VALUE

**Table 1-2 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210428**

<b>Bug Number</b>	<b>Description</b>
31576436	EVENTFAILEDEXCEPTION AND REQUESTSERVICEEXCEPTION IS SEEN IN THE LOG AFTER THE REQUEST STATUS TASK IS EXPIRED
31592160	TRACK: OIM DATA PURGE JOB FAILS WHILE PURGING THE RECON DATA FROM RA TABLES
31626677	OIMDBPLUGIN NOT INTERPRETING ESCAPED PARENTHESIS IN GROUP NAMES IN LDAP QUERY CORRECTLY
31634715	OIM 12.2.1.4.0:OIG RCU SQL MODIFICATIONS REQUIRED TO SUPPORT OIG DB ON ATP-D AND ATP-S
31637673	VIEW FORM OR EDIT FORM IS BLANK FROM OPEN TASKS PAGE
31656655	MISSING REQUESTER ID LEADS TO REQUEST FAIL
31683884	"FOR REPORTEES" OPTION IS NOT TRANSLATED TO BROWSER LANGUAGE
31732078	IAM-3054101 : THE LOGGED-IN USER DOES NOT HAVE VIEWSEARCHENTITY PERMISSION
31748217	ADF: ACCESS POLICY APPLICATION FORM FORCING TO ENTER AS FIRST VALUE THE FIELD MARKED AS ACCOUNT DISCRIMINATOR BEFORE ANY LOOKUP
31765258	UPDATING CERTIFICATION LINE ITEM USING REST RETURN HTTP ERROR 500 "GETSINGLERESULT() DID NOT RETRIEVE ANY ENTITIES."
31786528	POST PROCESS EVENT HANDLER NOT TRIGGERING ADD ROLE TO USER TASK ON SSO TARGET
31821244	ADDING ENTITLEMENT TO ACCESS POLICY AND EVALUATING TRIGGERS UPDATE TO PROC FORM.
31828240	PASSWORD CHANGED ON AD IS NOT PROPAGATING TO OTHER TARGET USING AD PWD SYNC
31838518	AUTOMATICALLY UNLOCK USER SCHEDULE JOB RESETS OBLOGINTRYCOUNT BUT NOT OBLOCKEDON
31883989	ADD SUPPORT FOR ONE-HOP UPGRADE FROM 11GR2PS3 TO 12CPS4
31903352	OIM HANDLING OF DISABLED USERS IN WORKFLOWS

**Table 1-2 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210428**

<b>Bug Number</b>	<b>Description</b>
31916340	LDAPCONTAINERRULES.XML NOT HONORING CREATE AND MODIFY OPERATIONS MOVING USER BACK TO DEFAULT OU
31922997	PUMA:UNABLE TO PROVISION/REVOKE ENTITLEMENT FROM FLAT FILE DISCONNECTED APP
31928115	SSO INCREMENTAL RECON CAUSES OBPASSWORDEXPIRYDATE TO DECREASE BY ONE DAY
31936434	HTTP 403 WHEN EDITING AN IT RESOURCE OR INSTALL A CONNECTOR
31941035	EXCEPTIONS ARE LOGGED DURING EXECUTION OF SCRIPT OIMBULKLOAD FOR AOB
31944823	CREATE INSTANCE FROM ACTION MENU FOR FLAT FILLE CONNECTOR CREATES APP WITH APP_INSTANCE_IS_SOFT_DELETE SET TO 1
31984036	CANNOT DISABLE OBJECT INSTANCE AS IT IS ALREADY DISABLED
31988157	REJECTED TASK ASSIGNED DATE CHANGES IF TASK IS ASSIGNED TO USER OR GROUP
31988511	REQUEST ID AFTER BEING APPROVED IS CREATED AGAIN UNDER PENDING APPROVAL
32012695	12C ACCOUNTS BULK LOAD FROM DB TO AOB APPINST FAILS WITH: JAVA.LANG.REFLECT.INVOCATIONTARGET EXCEPTION
32016431	UNABLE TO CHANGE FLAT FILE DURING FLAT FILE APPLICATION INSTANCE CREATION
32018230	DISAPPEARING REPORTS IN BI PUBLISHER - ONLY IDENTITY AUDIT REPORTS SHOW WHEN UI
32065363	PREVENT SELF CERTIFICATION IS NOT WORKING ON REASSIGNMENT OF ENT TYPE CERT
32086855	CERTIFICATION ROLE POLICY TAB ENTITLEMENT URL SHOW NO ENTITLEMENT DETAILS
32119749	BPEL TASK MAPPING GET ERASED WHEN THE COMPOSITE IS INVOKED

**Table 1-2 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210428**

<b>Bug Number</b>	<b>Description</b>
32178264	"BULK LOAD POST PROCESS" JOB SETTING DIFFERENT PWDS FOR OIM USER -VS- SSOTARGET
32180926	SOD CHECK NOT REQUIRED FOR OIM ROLES
32285418	TRACK REQUEST FOR REPORTEES NOT TRANSLATED TO POLISH
32307183	12C PS4 UPG DOESN'T UPDATE OIM-CONFIG.XML OR WORKFLOWS WITH VERSION6 DEFAULT COMPOSITES
32322591	AUTO-LOGIN FUNCTIONALITY NOT WORKING FOR OIM OAM INTEGRATED ENVIRONMENT
32364874	"TEST CONNECTION" FAILS WHEN OIM UI IS LAUNCHED WITH NON .COM OR .EDU URL
32386512	PRE-UPGRADE REPORT SHOWS "OBSELETE" REPORTS NO LONGER REQUIRED.
32393962	SSOTARGET PROVISIONING TRANSFORMATION SCRIPT TRUNCATING DATE CAUSING INCONSISTENCY BETWEEN USR_PWD_EXPIRE_DATE AND OBPASSWORDEXPIRYDATE
32400979	CERTIFYING ACCESS POLICY ATTACHED TO ROLE VIA REST THROWS JAVA.LANG.NULLPOINTEREXCEPTION HTTP ERROR CODE 500
32429894	PROB IN SAVING "ORGANIZATION NAME" AS RECONCILIATION RULE UNDER AD GROUP IN DC
32485920	CERTIFICATION TASK ASSIGNED ONLY TO PROXY OF MANAGER OF MANAGER DISABLED BUT NOT TO MANAGER OF MANAGER DISABLED
32497804	RESOURCE HISTORY - DATE ASSIGNED FIELD SHOWS IN GMT TIMEZONE
32513700	INCONSISTENCY DATE FORMAT BETWEEN TRACK REQUESTS AND REQUEST DETAILS FOR REQUESTED DATE FIELD
32527571	WRONG KEY WHEN FETCH THE ERROR MESSAGE TRIGGERS MISSINGRESOURCEEXCEPTION
32534109	CAN'T CHANGE/UPDATE ATTRIBUTES ON AOB SCHEMA
32535086	ORGANIZATION SEARCH IS NOT WORKING FOR END USER OTHER THAN XELSYSADM

**Table 1-2 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210428**

Bug Number	Description
32549885	BUG IN ACCESSPOLICYSERVICE API, FUNCTION GETACCESSPOLICY LIMIT TO 1024
32582603	ROLE CERTIFICATION COMPLETION THROWS EXCEPTION WHEN USING ACCESS POLICY WITH MULTIPLE APP INSTANCES WITH THE SAME ENDPOINT
32631765	DATE ASSIGNED COLUMN ONLY THE DATE IS DISPLAYED, TIMESTAMP MISSING

## Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210112

Applying the bundle patch resolves the issues described in [Table 1-3](#).

**Table 1-3 Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210112**

Bug Number	Description
25790911	JAVA SCHEDULERSERVICE:GETLASTHISTORYOFJOB API CAUSING OUT OF SEQUENCE ISSUES WITH RAC DB
27511207	ACCOUNT END-DATE IS NOT CLEARED POST ENABLING THE ACCOUNT
28025965	LIBRARIES (.JAR)FOR MANAGED BEANS AND TASK FLOWS ARE MISSING IN 12C
28361656	EMPEMPLOYMENT.STARTDATE INVALIDDATAFORMATEXCEPTION
28374155	12C SCIM API RETURNS ITEMSPERPAGE INSTEAD OF TOTALRESULTS
29945486	CONTINUATION OF BUG 29635993 - EXCESSIVE TIME ON CALLS TO /IDENTITY CONTEXT
30446841	IDENTITY AUDIT RULES CONTAINING SPECIAL CHARACTERS DO NOT RAISE POLICY VIOLATION
30484714	REFRESHROW ISSUE WITH OJDBC8
30587375	DEADLOCK CAUSING STUCK THREADS
30808736	RECONCILIATION OF A USER STATUS FROM ACTIVE DIRECTORY DOES NOT SET OUSERACCOUNTCONTROL IN LDAP
30835811	APPROVAL CHILD TASKS STATUS DOES NOT SHOW WITH BROWSER IN ITALIAN LANGUAGE
30883086	UNSUPPORTEDOPERATIONEXCEPTION ON MODIFYING USER WHEN USING UDF NUMBER IN ROLE MEMBERSHIP RULE
30932205	OIM REQUEST FAILED WITH MESSAGE IAM-2050126 : INVALID OUTCOME COM.ORACLE.BPEL.CLIENT.BPELFAULT
30992823	Fix for Bug 30992823



**Table 1-3 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210112**

Bug Number	Description
31161987	PASSWORD RESET IN MYINFORMATION SUBMIT BUTTON
31373822	NEED SPECIAL HANDLING OF INT ON FORM WHEN NO VALUE PASSED
31420786	ACCESS POLICY DOES NOT REMOVE ENTITLEMENT WHEN 2 CHILDFORMS ARE UPDATED TOGETHER
31530459	IPV6: PURGECACHE UTILITY IS NOT WORKING WITH IPV6 ENABLED SETUP
31637673	VIEW FORM OR EDIT FORM IS BLANK FROM OPEN TASKS PAGE
31645106	HARVESTED ENTS INCLUDED WHEN ENTITLEMENTS PROVISIONED BY AP UNCHECKED
31668539	EVALUATE USER ACCESS POLICY JOB STUCK AND CAUSING OIM SERVER TO GO INTO WARNING
31678727	OAM OIM 12CPS3 USER IS SHOWING STATUS AS UNLOCKED IN OIM CONSOLE EVEN IT IS LOCKED
31755105	LOCKED USER UNABLE TO USE 'FORGOT PASSWORD' OPTION
32102761	PRE UPGARDE REPORT FAILS IF STAGING-MODE IS EMPTY
32103803	UPGRADE WITH REMOVED ITR PASSWORDS LEAD TO POST CREATE EVENT HANDLER KEEPS TRIGGERING

## Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.201011


Applying this bundle patch resolves the issues described in [Table 1-4](#).

**Table 1-4 Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.201011**

Bug Number	Description
26308544	DELETED ENTITLEMENTS IN ACCESS POLICY ARE NOT REMOVED IN TARGET APPLICATION
29404814	CERTIFYING 20K USERS WITH 20K ACCOUNTS AND 100K ENTITLEMENTS FAILS IN SELF-SERVICE
29603087	SELF REGISTRATION DOES NOT TRIGGER ROLE MEMEBERSHIP
30062969	TRUSTED RECON OF MANAGER DOES NOT PROPAGATE TO SSOTARGET

**Table 1-4 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.201011**

Bug Number	Description
30145982	12C ACCOUNTS BULK LOAD TO AOB APPINST FAILS: "ONE OR MORE INPUT REQUIRED PARAM.
30202020	[ROLECERT]: NO CERTIFICATION TASK CREATED FOR PROXY USER'S MANAGER
30239831	CONT: ADAPTER FACTORY GENERATING INVALID JAVA CODE.
30414695	ISSUE WITH OFFLINE CERTIFICATION COMMENTS FIELD LENGTH WHEN UPDATING FROM EXCEL
30500178	XL.CATALOGSEARCHRESULTCAP NOT ONLY AFFECT THE UI BUT ALSO INTERNAL PROCESSING
30546975	WHILE WITHDRAWING A REQUEST, THE CONFIRMATION BOX IS APPEARING WITH A BIG DIALOG
30716490	UNABLE TO PROCESS BATCH UPDATE IF ANY SSOTARGET IN PROVISIONING STATUS FOR USER
30717640	RULEENGINEEXCEPTION: INVALID RULE EXPRESSION - NOT_IN
30717793	CLONED DISCONNECTED PROVISIONING COMPOSITE FAILS AT ASSIGNREQUESTINPUT STAGE

 **Note:**


See [Bulk Load Utility for Loading Accounts](#) for information about the input required for loading account data by using the Bulk Load Utility.

**Table 1-4 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.201011**

<b>Bug Number</b>	<b>Description</b>
30738489	REQUESTS/PENDING REQUESTS GET ERROR IF SECOND MANAGER IS DISABLED
30838859	[ROLECERT]: FUTURE STARTING PROXY USER RECEIVES CERTIFICATION
30865103	DELETE TASK NOT TRIGGERED ON ATTRIBUTE SET AS NOT ENTITLEMENT IN CHILD FORM
30865689	ISSUE AUDIT MESSAGES JOB DOES NOT PROCESS AUD_JMS - ORA-01403: NO DATA FOUND
30866653	ACCESS DENIED ERROR WHEN CALLING CREATEITRESOURCEINSTANCE FROM SCHEDULED TASK
30893984	APPLICATION INSTANCE SORT ORDER IN USER CERTIFICATION NOT ALPHABETICAL
30910129	DUPLICATE ACCESS POLICY NAME ERROR NOT CLEAR
30925400	CRYPTIC ERROR MESSAGE WHEN REQUEST FAILS
30930007	EXPERIENCING VERY SLOW PERFORMANCE WHEN SCANNING SOD POLICIES WITH 4.5K RULES.
30942250	CREATE ADMIN ROLE THROWS: JBO-29000: UNEXPECTED EXCEPTION CAUGHT: JAVA.LANG.NULLPOINTEREXCEPTION
30977436	USER ASSIGNED TO A ROLE WITH THE "+" CHAR IN THE NAME CAN'T ACCESS WORKLISTAPP

**Table 1-4 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.201011**


Bug Number	Description
30978612	AP HARVESTING SYNC ATTRIBUTES/ ENTITLEMENTS TO MATCH WITH THE ACCESS POLICY
31057153	OIM 12C SSOTARGET APPLICATION PROFILE MODIFY NOT TAKING PATH IN LDAPCONTAINERRULES
31111401	ADMIN ROLE: JUMPING FROM SUMMARY PAGE BACK TO FIRST PAGE RESULTS IN LOST DATA
31114189	INTEGER FIELDS WITH NO VALUE DEFAULTING TO 0 FOR APPS CREATED USING AOB

 **Note:**

See [Access Policy Harvesting to Enable Account Data Update](#) for information about the XL.APHa rvesting. AllowAccountData Update system property for enabling account data update.

**Table 1-4 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.201011**

Bug Number	Description
31162758	OIM 12C SSO USER TARGET RECON OVERWRITING ROLE VALUE SAVED ON OIM USER WITH DEFAULT VALUE
31177214	UNABLE TO ADD EMPLOYEE TYPE AS DISPLAY DATA IN THE INFORMATION WINDOW
31180365	UPGRADE FROM 11.1.2.3 TO 12.2.1.3: STRINGINDEXOUTOFBOUNDSEXCEPTION: STRING INDEX OUT OF RANGE: -19
31193971	ENTITLEMENT CERTIFICATIONS ARE NOT GETTING GENERATED FOR SOME OF THE CERTIFIERS.
31202544	NON REQUESTABLE ROLES INCONSISTENT BEHAVIOR IN CERT DEFN "CONTENT SELECTION"
31254720	DIAG: POOR LOGGING IN OIMDATAPROVIDER
31292576	PASSWORD CHANGE FLOW ISSUES AFTER FIX 30809484
31316925	ENT CERT SHOULD BE CREATED FOR CERTIFIER FOR REMAING ENT WHICH ARE CORRECT
31351771	INCONSISTENT VALUES IN THE REQUEST STATUS FILTER FROM TRACK REQUESTS PAGE

 **Note:**  
See [Steps to Map the Role and employee Type Attributes](#) for information about the manual steps required for the bug fix to work.

**Table 1-4 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.201011**

Bug Number	Description
31375771	SSO TARGET APPLICATION FAILS TO GET PROVISIONED WITH MANAGER ATTRIBUTE.
31434988	ENT_ASSIGN_HIST DOESN'T SAY IF THE ENTITLEMENT WAS PROVISIONED OR INPROGRESS
31464420	DISABLE USER TASK IS GETTING TRIGGERED FOR PROVISIONING ACCOUNTS
31555186	CERTIFY OIM OAM INTEGRATION ON SOLARIS
31605168	INTEROP: UPDATING ROLE NAME IN TARGET LDAP AND RECONCILE DID NOT UPDATE THE ENTILEMENTS IN INTEROP ENV



**Note:**

See [Revoking Members hip Does Not Work](#) for the known issue about the bug fix.

31605187

INTEROP:SSO FULL USER RECON DID NOT UPDATE WITH LAST TOKEN VALUE



**Note:**

See [SSO Full User Reconciliation](#) for the manual steps required for the bug fix to work.

**Table 1-4 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.201011**

Bug Number	Description
31670117	INTEROP: ERROR COMING ON MODIFYING ROLE IN INTEROP AD ENVIRONMENT

## Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.200624

Applying this bundle patch resolves the issues described in [Table 1-5](#).

**Table 1-5 Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.200624**

Bug Number	Description
29055661	PASSWORD POLICY DOES NOT MATCH BETWEEN OIM AND AD CAUSING ISSUES DURING PASSWORD SYNC
30007378	REASSIGN THE REVIEWER ON CERTIFICATION FAILED ON PREVENTING SELF CERTIFICATION
30097140	SLOWNESS OPENING USER DETAILS ADMIN ROLES TAB
30153927	APPROVAL DETAILS INCORRECT AFTER REVOKING ROLE BY XELSYSADMIN AND ANOTHER USER
30216857	SETCHALLENGERESPONSESFORLOGGEDINUSER - CHALLENGE QUESTIONS PROVIDED ARE NOT DEFINED
30343249	WHILE DELETING ORGANIZATION USERS REMAIN IN ACTIVE STATE
30343784	ACCESS POLICY NOT REVOKING ENTITLEMENTS ON ALREADY DISABLED USERS
30376706	ROLEMANAGER GRANTROLE SQLEXCEPTION: EXCEEDED MAXIMUM VARRAY LIMIT
30391615	ROLE WITH RULE FOR DATE FIELD IS NOT ASSIGNED TO USER
30420218	OIM/OAM INTEGRATION USER SESSION LOST AFTER ANY USER DATA EDITED
30439939	AP HARVESTING DOES NOT WORK FOR RESOURCES WITH MULTIPLE PROVISIONING WORKFLOWS
30506899	DELETE RECONCILIATION LEAVES PROVISIONING OPEN TASKS IN LIMBO STATE.
30517366	DELEGATE THE REVIEWER ON CERTIFICATION FAILED ON PREVENTING SELF CERTIFICATION
30757297	DISCONNECTED APPLICATION NOT TRIGGERING UPDATE TASK ON CHILD FORM
30788834	DIAG: NEED SOME TRACE LOGGING IN THE SCIM FUNCTIONALITY
30896936	PUMA: CUSTOM MESSAGE NOT DISPLAYED WHEN COMPLETING MANUAL TASK
31184149	PERFORMANCE ISSUE IN OIMDATA PROVIDER.GETARRAYFORHIERARCHY

**Table 1-5 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.200624**

Bug Number	Description
31477738	UNABLE TO CREATE RULE MEMBERSHIP WITH DATE DATA TYPE

## Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.200505

Applying this bundle patch resolves the issues described in [Table 1-6](#).

**Table 1-6 Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.200505**

Bug Number	Description
27074256	OIM-OAM-OID: SSO USER FULL RECONCILIATION DO NOT DELETE USER
27216374	OIM-OAM-AD: SSO GROUP HIERARCHY SYNC FULL RECON DO NOT WORK
30257502	USER SESSION IS NOT TERMINATED IN UPGRADED 12CPS4 ENV
30327749	ROLES CREATED IN OIM ARE SHOWN AS ENTITLEMENT IN CATALOG SEARCH
30330170	LDAP USER DELETE RECON JOB NOT AVAILABLE
30330745	ISSUE WITH USER-ROLE MEMBERSHIP RECON
30354276	REMOVE LDAPSVC RELATED JOBS IN CONNECTOR BASED 12CPS4 OAM-OIG ENV
30555995	SSOTARGET AND SSOTRUSTED-FOR-SSOTARGET SHOULD NOT BE AVAILABLE FOR OTHER OIM OPERATIONS SUCH AS REQUEST
30654239	USER NOT SEEN IN USER CONTAINER AFTER APPROVING THE USER REG REQUEST IN ROLLING UPG ENV(11G-12CPS3-12CPS4))
30654620	USER NOT SHOWN AS LOCKED IN OIM AFTER PROVIDING WRONG PASSWORDS IN ROLLING UPG ENV(11G-12CPS3-12CPS4)
30654852	ROLE CREATED IN OIM IS NOT SEEN IN LDAP IN ROLLING UPG ENV(11G-12CPS3-12CPS4)
30655208	ROLE CREATED IN OUD IS NOT SEEN IN OIM IN ROLLING UPG ENV (11G-12CPS3-12CPS4)
30655442	SESSION TERMINATION FAILING IN ROLLING UPG ENV (11G-12CPS3-12CPS4)
30655935	ROLLING UPG(11G-12CPS3-12CPS4): SSOTARGET APP INSTANCE DOES NOT HAVE ANY ENTITLEMENTS IN 12CPS4
30855442	NOT ABLE TO ADD MEMBER IN EXISTING ROLES IN AD ROLLING UPGRADE ENV (11G-12CPS3-12CPS4)
30855747	CAN NOT ADD ROLE HIERARCHY FOR EXISTING ROLES IN AD ROLLING UPGRADE ENV(11G-12CPS3-12CPS4)



**Table 1-6 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.200505**

Bug Number	Description
30855892	CAN NOT DELETE EXISTING ROLES IN AD ROLLING UPGRADE ENV(11G-12CPS3-12CPS4)
30857219	SSO GROUP HIERARCHY SYNC FULL RECONCILIATION JOB AND SSO GROUP HIERARCHY SYNC INCREMENTAL RECONCILIATION JOB FAILING IN AD ROLLING UPGRADE ENV
30864002	EXECUTION OF SSO GROUP HIERARCHY SYNC FULL RECONCILIATION IS SHOWN AS FAILED IN OUD BASED ROLLING UPGRADE ENV
30864119	EXECUTION OF SSO GROUP MEMBERSHIP FULL RECONCILIATION IS SHOWN AS FAILED IN OUD BASED ROLLING UPGRADE ENV
30868468	MODIFICATIONS TO NEWLY CREATED USER IS FAILING IN AD ROLLING UPGRADE ENV
31190098	INTEROP OIM_OAM_OUD IS BROKEN AFTER APPLYING PATCH 31178096
31198576	TC_CB_SAFE_BUG20134996_DIFFCASEINGROUPLOOKUP_XEL SYSADM.DIF IN LRG_OIM_12CPS4_DB_CUSTOMER_1 TOPO

## Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.200206

Applying this bundle patch resolves the issues described in [Table 1-7](#).

**Table 1-7 Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.200206**

Bug Number	Description
29942217	IMPLEMENT BLIND/FILTERED SEARCH "FOR A REPORTEE" FOR A MANAGER
29972923	STEPS TO ROLLBACK AUTOCOMMITTED DDL OPERATIONS IN DB
30325576	PARTIAL FIX FOR BUG 28777983
30680152	ORGANIZATION SEARCH IN TRACK REQUESTS PAGE: ALL REQUESTS NOT DISPLAYED FOR ORGANIZATION NAME SEARCH IF NUMBER OF REQUESTS GREATER THAN 25
30680286	ORGANIZATION SEARCH IN TRACK REQUESTS PAGE: DOES NOT EQUAL OPERATOR NOT WORKING AS EXPECTED
30717520	ORGANIZATION SEARCH IN TRACK REQUESTS PAGE: BENEFICIARY NAME NOT LISTED

## Known Issues and Workarounds

Known issues and their workarounds in Oracle Identity Governance Release 12.2.1.4.0 are described in the Oracle Identity Governance chapter of the *Release Notes for Oracle Identity Management* document. You can access the Release Notes

document in the Oracle Identity Management Documentation library at the following URL:

<https://docs.oracle.com/en/middleware/idm/suite/12.2.1.4/idmnrn/index.html>

 **Note:**

Some known issues listed in the Release Notes for Oracle Identity Management may have been resolved by this Bundle Patch (OIM BUNDLE PATCH 12.2.1.4.210428). Compare the issues listed in [Resolved Issues](#) of this document when reviewing the *Release Notes for Oracle Identity Management*.

This section describes the issues and workarounds in this BP release of Oracle Identity Governance:

- [Errors Related to the For Reportees Feature](#)
- [Identity Self Service and Identity System Administration Not Accessible](#)
- [Revoking Membership Does Not Work](#)
- [Upgrade Assistant Fails With StringIndexOutOfBoundsException](#)
- [Error on Running Bulk Load on ATP-D Setup](#)

## Errors Related to the For Reportees Feature

While using the Organization Name search criteria, at least one direct reportee should be associated with the organization. When organization name outside the reportee's organization is entered, the following error message is displayed:

```
IAM-2053037 : An error occurred while searching for the reportees as the organization name is invalid or not associated with any reportee (This is EXPECTED). Atleast 1 direct reportee should belong to the org name being searched.
```

The total number of direct reportees and indirect reportees must not exceed 1000. For Reportees does not work if number of direct reportees and indirect reportees are more than 1000, and the following error message is displayed:

```
"IAM-2053036 : An error occurred while searching for the reportees as the reportee size exceeded the limit 1,200. Please retry with other search criteria"
```

## Identity Self Service and Identity System Administration Not Accessible

After applying this bundle patch, OIG server deployments for Identity Self Service and Identity System Administration fails with `oracle.iam.ui.view` and `oracle.iam.ui.model` applications.

When you apply the bundle patch and update the Oracle Identity Governance web applications, the OIG system libraries `oracle.iam.ui.model(1.0,11.1.1.5.0)` and `oracle.iam.ui.view(11.1.1,11.1.1)` goes to the Prepared state. The `oracle.iam.console.identity.self-service.ear` and `oracle.iam.console.identity.sysadmin.ear` are referencing these two libraries, and therefore, cause the deployment failure.

To workaroud this issues, manually delete the `oracle.iam.ui.model(1.0,11.1.1.5.0)` and `oracle.iam.ui.view(11.1.1,11.1.1)` libraries from deployments, and redeploy them in WebLogic Server Administration Console. To do so:

1. In WebLogic Server Administration Console, go to **Deployments**, and click **Lock and Edit**.
2. Select the **oracle.iam.ui.model(1.0,11.1.1.5.0)** library, and click **Delete**. Do the same for the **oracle.iam.ui.view(11.1.1,11.1.1)** library.
3. Click **Activate Changes**.
4. In Deployments, click **Lock and Edit**.
5. Click **Install**, install the `oracle.iam.ui.model(1.0,11.1.1.5.0)` as a library by following all the default settings, and select the OIM cluster/server as the target. Click **Finish and Save**. Repeat for the same for the `oracle.iam.ui.view(11.1.1,11.1.1)` library.
6. Click **Activate Changes**. The libraries are running in Active state.
7. In Deployments, click **Lock and Edit**, and then click the **Control** tab.
8. Select **oracle.iam.console.identity.sysadmin.ear**, which is in the Prepared state, and then select **Start / Serving all requests**.
9. Select **oracle.iam.console.identity.self-service.ear**, which is in the Prepared state, and then select **Start / Serving all requests**.
10. After the two applications go to the Active state, click **Release configuration**.

After the referenced libraries and the `oracle.iam.console.identity.self-service.ear` and `oracle.iam.console.identity.sysadmin.ear` applications go to the Active state, the system is up and running.

## Revoking Membership Does Not Work

As part of the bug fix for 31605168, the entitlements are now updated with new role names, but the revoking of membership is not working.

## Upgrade Assistant Fails With StringIndexOutOfBoundsException

Running the Upgrade Assistant for upgrading Oracle Identity Manager 11g Release 2 (11.1.2.3.0) to Oracle Identity Governance 12c (12.2.1.4) fails with the following error:

```
[2020-04-14T16:03:48.087-04:00] [Framework] [ERROR] [] [upgrade.Framework] [tid:
XX] [ecid: XXXX] []
    java.lang.StringIndexOutOfBoundsException: String index out of range: -19
```

```

    at java.lang.String.substring(String.java:1967)
    at oracle.iam.oimupgrade.mrua.OIMMRUA.readiness(OIMMRUA.java:345)
    at oracle.ias.update.plugin.Plugin.readiness(Plugin.java:595)
    at oracle.ias.update.plan.PlanStep.readiness(PlanStep.java:730)
    at
oracle.ias.update.PhaseProcessor$ReadinessProcessor.runStepPhase(PhaseProcessor.java:873)
    at oracle.ias.update.PhaseProcessor.runStep(PhaseProcessor.java:369)
    at
oracle.ias.update.PhaseProcessor$ExtendedRunnable.run(PhaseProcessor.java:1058)
    at
java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1149)
    at
java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at java.lang.Thread.run(Thread.java:748)
]]

```

The issue takes place during the MDS backup. The cause of the error is the MDS JDBC URL used, which is in the form:

```

jdbc:oracle:thin:@(DESCRIPTION=(LOAD_BALANCE=on)(ADDRESS=(PROTOCOL=TCP)
(HOST=xxxx)(PORT=1521))(ADDRESS=(PROTOCOL=TCP)(HOST=xxxx)
(PORT=1521))(CONNECT_DATA=(SERVER=DEDICATED)(SERVICE_NAME=xxxx)
(FAILOVER_MODE=(TYPE=select)(METHOD=basic)))

```

The upgrade tool does not expect complex URLs with something before the address field.

To workaround this issue, remove (LOAD\_BALANCE=ON) from the JDBC URL.

## Error on Running Bulk Load on ATP-D Setup

When you run the Bulk Load utility on ATP-D by using wallet, the utility exits with the following error:

```

./oim_blkld_usr_load.sh: line 260: /home/opc/db18c/bin/sqlplus: Permission denied
./oim_blkld_usr_load.sh: line 311: /home/opc/db18c/bin/sqlplus: Permission denied
./oim_blkld_usr_load.sh: line 336: /home/opc/db18c/bin/sqlplus: Permission denied
./oim_blkld_usr_load.sh: line 361: /home/opc/db18c/bin/sqlplus: Permission denied
./oim_blkld_usr_load.sh: line 386: /home/opc/db18c/bin/sqlplus: Permission denied
./oim_blkld_usr_load.sh: line 411: /home/opc/db18c/bin/sqlplus: Permission denied
./oim_blkld_usr_load.sh: line 436: /home/opc/db18c/bin/sqlplus: Permission denied
./oim_blkld_usr_load.sh: line 462: /home/opc/db18c/bin/sqlplus: Permission denied
./oim_blkld_usr_load.sh: line 486: /home/opc/db18c/bin/sqlplus: Permission denied

```

To workaround this issue:

1. Log in to Oracle WebLogic Administration Console as an administrator.
2. Click **Services, Datasources**.
3. Select the **oimOperationsDB** datasource.
4. Click **Connection Pool**, and check the URL value. It is similar to the following:

```

jdbc:oracle:thin:@(DESCRIPTION=(CONNECT_TIMEOUT=120)(RETRY_COUNT=20)
(RETRY_DELAY=3)(TRANSPORT_CONNECT_TIMEOUT=3)(ADDRESS_LIST=(LOAD_BALANCE=on)

```

```
(ADDRESS=(PROTOCOL=TCP)(HOST=abc.example.com)(PORT=1521))  
(CONNECT_DATA=(SERVICE_NAME=db.example.com))
```

5. Use the hostname, port, and service name from the URL value to run the Bulk Load utility.

## Related Documents

For more information, see the following resources:

- [Oracle Fusion Middleware Documentation](#)  
This contains documentation for all Oracle Fusion Middleware 12c products.
- [Oracle Technology Network](#)  
This site contains additional documentation that is not included as part of the documentation libraries.

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Oracle® Fusion Middleware Oracle Identity Governance Bundle Patch Readme, OIM BUNDLE PATCH 12.2.1.4.210428  
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